To play Space Invaders in your own home, I am afraid it will cost $\mathfrak X$,000 for the arcade game, but for those with more modest incomes an alternative is available.

THE INTRUDERS

This program brings the popular and addictive arcade/pub. game into the home of any owner of an expanded NASCOM.

For the benefit of the unenlightened, there follows a brief description of the game which has attained a cult following in many countries.

The game can be played by 1 or 2 people, the object being to gain the highest score possible by destroying the Intruders before they destroy you. You and your optional opponent take it in turns to command a ground laser base which has the ability to move and fire missiles at the approaching Intruders. Your score increases with each Intruder destroyed and in addition with each UFO hit, as it occasionally crosses the top of the screen. The Intruders, however, can fire bombs at the laser base and when hit, it is the opponents turn to take command. Each player gets 3 laser bases (plays) but additional plays are granted for scoring 1500 and 4500.

When the game is started the screen consists of 55 Intruders arranged in 5 rows of 11. The first player's laser base is placed at the bottom left of the screen and there are 4 defences behind which the laser base may shelter. The player can move his laser base left or right along the bottom line of the screen by pressing one of two keys. The laser base continues to move while the key is held down and stops when it is released. To fire a missile up the screen another key is pressed.

The Intruders start at the top of the screen and slowly move from the left to the right of the screen and back again dropping a level each time a screen edge is hit. The Intruders are gradually getting closer and closer to you and therefore it is getting harder and harder to out manouvre their falling bombs. Also, the Intruders start moving slowly but with each one destroyed by the laser base they move slightly faster until, when there is only one left, it is moving very fast and so is difficult to destroy. If an Intruder should reach the bottom of the screen that player is totally destroyed and forfeits any plays he may have remaining but his opponent continues with the rest of his plays until he is destroyed. When a player is hit his screen is saved so that it may be restored when it is his turn again.

The Intruders know the position of the laser base at all times so they can fire their bombs accurately, however, they also fire occasional random bombs to allow them to 'chip away' at your defences. Any Intruder bomb or ground missile hitting the defences blasts a small hole in them and when a large enough hole has been made the bombs and missiles can pass through the defences.

Whenever a screen of Intruders (55) are destroyed, a new screen is created but this time with the Intruders positioned one level lower. In this way the game gets progressively harder with each screen of Intruders destroyed until, at a certain low level, the Intruders start moving up the screen with each screen destroyed.

The mother ship UFO which occasionally traverses the top of the screen can move in either direction and when hit gives a random score of between 50 and 300. There are 3 different types of Intruders worth 10, 20 and 30 points. The top line of the screen is reserved for each player's score and a count of the number of turns remaining for each player. Also on the top line is the highest score attained since the system was started, at start up time this score is zero.

That completes the description of the game but it should be emphasised that a written description does not do the game justice. It should be seen and experienced!

Special Features

Within the game are a number of options which may be selected by the user.

1. Graphics/Non-Graphics

When the game is first started the user is asked if he would like graphics or not. This is because the program is written to optionally use the William Stuart colour graphics system. Any owner of this add on unit will get a slightly better screen display due to the incorporation of colour graphics. The majority of users will not have this add on unit so by replying 'N' to the graphics prompt will get the normal NASCOM display.

2. Fire Key

Some keys are easier to hit than others so it is possible to select one's own fire key. Also, after prolonged use (as tends to happen with this addictive game) it is wise to select a different key to prevent over use of one key.

3. Practice

The last few Intruders can be difficult to destroy, so to allow the user to gain experience a practice mode is available which puts 4 fast moving Intruders on the screen.

4. Variable Skill

Three levels of play are available, novice, good and expert. Novice is for the beginner, good for the normal player and expert for the very experienced.

5. Pause

During the game a pause facility is available by typing the letter 'P', the game may be continued by typing any key. This facility is incorporated to allow the player to answer the door, telephone, calls of nature, wife etc., without letting those nasty Intruders destroy you. It is not intended as a rest facility while trying to attain that ultimate high score.

6. High Score

The high score, as indicated on the top line of the screen, shows the highest score attained under the current level of skill. When a different level of skill is selected (by typing N, G or E for Novice, Good or Expert) the high score attained at that level is used.

All these options are available within the same program, some being selected when the game is first started and others at the end of each program.

The program resides in 3.25K starting at address 1000H and requires an additional 2.25K to run in so the total memory requirement is 5.5K and hence the program will run on any normal expanded NASCOM. The program runs on a NASCOM 1 under any monitor, ie. T2, B-BUG, T4 or NAS-SYS, the monitor selection being transparent to the user. The program will also work on a NASCOM 2 with the speed link option set to 2MHz and no WAIT state selected. The NASCOM 2 normally runs at 4MHz with a WAIT state.

The program was initially developed in machine code but when more memory was purchased it was re-written using ZEAP. The source code, which is virtually uncommented, now occupies 24K.

The program is supplied as object code on a high quality tape, one recording on each side. The program is recorded in WRITE format and preceded by a short fast loader program in LOAD format which when executed will allow a T2 owner to load the program.

This extensive full feature game is supplied on tape with object listing and instructions for £10.00 including postage and packing and VAT. Please state whether the tape is for a NASCOM 1 or 2 since the cassette interface speed differs for the two machines.

The game is great entertainment value and is found to captivate people of all ages.

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1780 18 02 DF 61 F5 3A 05 OC 01 FF FF FE 10 28 09 03 1790 3A 02 20 01 03 ED 43 23 OC FE 10 1E F1 FE 50 20 5C 17AU 04 CD 1D C9 21 09 1E BE CO 2A 1F 1E 7C B7 C0 17B0 2A 25 1E 01 CU FF 09 **3**E 21 CD B9 19 28 1A 06 21 17CU FE 20 2A 28 OA 06 19 C4 EF 28 UΕ FΕ 2A FE 19 C4 1700 A7 21 28 02 26 00 1 A 70 78 FE 22 1F C9 1E ED 4B 3B 2A 25 1E 28 2A 2B B7 79 B7 28 17EU 23 1E 1E 09 2B 89 7D FE 28 31 17F0 23 23 7D FE BA ED 42 B7 ED 42 36 20 1800 09 3A F3 1D 57 3A F5 1D 5F 78 B7 28 03 7 A 53 1810 72 υ9 3A F4 1D 77 22 25 1E 09 7E FE 20 C2 13 3E 03 C9 19 91 1820 73 3E 08 4F CB 39 CD 12 06 00 4F 2A 1830 F2 34 18 05 25 1E 09 7D FE BA C8 FE 89 C4 27 3A 00 72 23 57 23 20 1840 19 C9 E5 21 CA OA 1E 1E UE U4 U6 04 23 1850 73 23 10 FC 77 72 23 77 06 04 73 23 OD 20 E9 21 OA OB OE O4 O6 O3 73 23 10 FC 1860 10 FC 72 23 06 03 73 23 06 10 FC 10 FC OD 20 EB 21 1870 06 72 23 UE U4 U6 U3 73 23 10 FC 72 23 1880 4A ÚΒ 77 23 1890 77 23 72 23 72 23 06 03 73 23 10 FC UD 20 E5 CD 3A 05 FE 50 28 1A E1 01 40 00 3E 07 CD 18A0 FD 18 1E 18 3E UF CD D9 19 3E U7 DD 77 18 D9 18 CD D9 18 CD 18B0 D9 18 3E CD 18C0 D9 '18 C9 DD E1 11 07 01 DD 00 DD 77 06 C9 E5 06 0B 77 23 18DU 77 U2 DD 77 U4 DD 36 20 10 F9 E1 U9 C9 8A 08 01: 31 03 ED B1 E0 2B 18EU 23 21 18F0 36 20 23 18 F7 AF 47 CD 7D 1D 10 FB C9 21 8A OB 22 25 5F 86 1E 23 3A F5 1900 3A F3 1D 77 23 3A F4 1D 77 1D 3D C5 E5 21 FF 1D 47 ED 5F 38 01 77 C9 1910 77 90 1920 30 FD 80 3C E1 C1 C9 U1 40 00 11 4A 08 B7 ED 42 7E CD E6 19 20 F2 09. 7E 06 19 FE 1930 B7 ED 52 19 D8 19 13 FE 2A 28 OF 06 2A FE 21 28 1940 20 28 17 FE 28 1950 09 3E 19 CD B9 19 C8 C3 2B 13 70 C9 26 00 22 1F B7 28 02 2B 2B 1960 1E 1E ED 4B 1D 1E 78 **3**6 20 2A 21 30 77 3Ē 12 19 3D 28 03 C6 23 01 00 00 B7 1970 04 CD 1980 28 01 64 00 FE 28 OF 01 C8 Q0 FE 16 32 28 08 31 36 35 36 35 3E 32 36 30 AF 15 B7 28 3E 1990 01 2C 01 18 ŰΕ 32 28 04 3E 23 3D 36 36 19AU 02 CD 12 19 30 30 C3 U4 1A E5 C5 47 4E 21 19B0 6F 26 00 09 E5 C1 85 1D 78 FE 21 20 03 21 1900 3A F4 1D FE OE 28 UB 21 9D 1D 28 07 23 EA D6 19 79 01 03 OU ED A1 C1 E1 19D0 A5 1D 18 C8 FE OF C9 E5 C9 FE 07 C8 FE 19EU C9 C1 E1 77 7E 06 00 CD 04 1A 19F0 C5 F5 01 06 00 21 8B 1D ED B1 4E 3A 03 1E DD 21 1A00 F1 C1 E1 C9 D5 E5 F5 2A 13 1E E5 31 28 04 DD 21 ED 0B B7 09 30 03 21 FF 1A10 CD UB FE 1E 11 DC 05 B7 ED 52 22 13 1E CD 82 1A 2A 13 1A20 FF 33 E1 B7 ED 52 14 E5 ED 52 19 38 11 94 11 2A 13 1A30 19 38 30 19 1F E1 B7 19 3A FA 1A40 1E В7 ED 52 38 19 3A 03 1E 1D 21 D3 OB 11 F3 OB FE 31 1A50 1D 3C 32 FA EB 34 18 01 E1 2A 13 1E ED 5B 15 1E Б7 ED 1A60 28 01 CD 82 1A F1 E1 DD 21 E5 OB 38 UA 22 15 1A70 52 19 1E 93 F8 1A80 D1 C9 FD 21 1D AF FD 5E 00 FD 56 01 B7 ED 52 3C 18 01 BB 30 DD 77 00 DD 23 FD 23 FD 1A90 38 03 19 C6 36 2A 3A E5 50 20 02 2E 1AAU 23 C9 1D 3D 32 E5 1 D 20 Eΰ 3E 7D 32 E5 3A 05 1E FE 04 1D 1ABO CO 2E 37 31 3E 32 E4 1D 3A U3 1E FE 2A 32 FC 1D 01 1ACU 3E 03 52 19 01 11 58 U8 B7 ED 40 1ADO OB 1E 28 03 2A OD 1E 28 OA 11 23 F5 3A U4 11 18 09 FE 4E 58 1AEU UU 28 1E 09 F1 B7 ED 52 19 01 CO FF 47 28 03 11 98 1AF0 09 FE 31 28 1D 43 E7 FE 05 22 E7 1D U9 ED 1BUU 28 04 ED 4B E5 21 11 OA 18 03 22 UB 1E CD F5 18 80 AU 1B10 0D 1E 36 20 01 B0 03 ED B0 E1 CD 42 18 E1 3E 01 13 1B20 08 1B30 32 E6 1D C3 90 12 CD 2C 1D 21 4E 08 CD 3A 1D EF

1B40 47 72 61 70 68 69 63 73 20 59 2F 4E 3F 20 00 CD 3E 3D 32 F3 1D 32 F5 28 18 1B50 5C 1D CD 69 1D FE 59 32 00 1E 3E 25 32 F4 1D 3E AB F4 1D 3E 32 01 UE 32 F4 1D 3E 7F A7 32 F3 1D 3E AF **1**B60 1D 3E 3E AB 32 F5 1B70 C9 32 00 1E 3E 9F 32 U1 1E 3E UF D3 U6 AF D3 1B80 3E DF 1890 04 C9 3E 19 CD 12 19 3D CO 3E 31 CD 12 19 3D 4F 18AO 06 OO 21 89 OB O9 CD 27 19 C9 21 3A O8 11 3O OO 30 00 3E FF UE 10 77 23 UD 20 FB 19 10 F6 3E U2 19 3C 32 U8 1E ED 5B 25 1E DD 2A 25 1E DD 20 DD 36 U1 20 DD 21 UU 08 21 27 1E 3E 1E 1BB0 06 0F 12 1BCU CD 3E 1BD0 36 FF 20 DD 1BEU CD 12 19 C6 U4 32 U7 1E 47 3E 14 CD 12 19 77 23 1BF0 C5 D5 E5 3E 06 CD 12 19 47 21 00 00 1000 ED 52 10 FB 3E 0F CD 12 19 D6 08 4F 11 40 00 B7 17 9F 47 09 1010 E3 C1 71 23 70 D1 C1 23 73 23 72 23 3A 00 1E FE 3E 1F CD 12 19 18 07 3E 7F CD 12 10 B4 11 0A 08 DD 21 27 1E AF 32 1020 7F 20 07 19 CB 1E AF 32 U6 1E 32 U6 1E DD 35 1030 FF 77 23 1E 47 C5 DD 7E 00 B7 28 3C 1040 3A 07 4E U1 DD 46 02 DD 6E U3 DD 66 U4 36 20 3D 1050 00. DD 1060 28 25 09 AF ED 52 19 38 1E 7E FE 20 28 00 **3**C 28 1070 16 3D CD E6 19 20 03 AF 18 0D DD 75 03 DD 74 04 1080 DD 7E 05 77 DD 7E 00 DD 77 00 01 06 00 DD 09 C1 1090 10 B2 3A 06 1E B7 28 08 3E 0A CD B0 10 C3 38 10 32 08 1E CB 27 CD BO 10 C3 C7 1B 1CAU 3A U8 1E 3D C8 1CBO C5 47 CD 1D 10 FB C1 C9 3A 03 1E 57 1E 20 21 7D 31 28 03 21 ED 0B 3E 18 E5 01 00 00 08 1CCU CD UB FE 21 10 08 FD 36 00 50 FD 36 01 40 FD 36 03 59 FD 36 04 45 FD 36 05 52 FD 72 07 06 10 AF CD 7D 1D 10 FA 06 05 1000 CD 04 1A FD 21 36 U2 41 FD 1CE U 1CF0 36 06 20 FD 73 00 DD 23 10 F9 FD 21 1C 08 06 1000 DD E1 DD E5 DD 73 00 FD 23 10 F9 06 10 AF CD 7D 1D 10 FA 1D10 08 FD 1D20 08 3D 20 A8 0E 00 CD 04 1A DD E1 C9 21 00 08 36 1D30 20 11 01 08 01 FF 03 ED BO C9 3A 00 04 FE 22 28 1D40 04 22 18 0C C9 22 29 0C C9 3A 00 04 FE 22 28 06 1D50 2A 18 0C 36 20 C9 2A 29 0C 36 20 C9 3A 00 04 FE 1D60 22 28 04 CD 3E 00 C9 CF C9 F5 3A 00 04 FE 22 28 1D70 06 2A 18 0C F1 77 C9 2A 29 0C F1 77 C9 F5 F1 F5 1D80 F1 3D 20 F9 C9 7F 25 25 20 00 00 07 1E 18 14 0F 1D90 0A 00 00 10 27 E8 03 64 00 0A 00 01 00 DF D3 D3 20 00 00 DF DC D3 20 DC 20 00 00 06 05 05 1DAO 20 DC 2F 33 20 20 20 48 49 47 48 52 45 20 20 20 20 20 20 20 20 1DB0 30 38 30 30 30 30 30 2F 1DC0 45 53 54 20 53 43 4F 52 1DD0 20 20 30 30 30 30 30 2F 33 20 20 20 20 20 20 20

Fäst loader program for T2 users.

0050	31	00	10	c b	51	00	06	0.4	c p	3E	00	FE	FF	20	F7	10
0060	F7	CD	3E	00	6F	co	3E	00	67	c b	3E	00	5F	cn	3E	00
0070	57	0E	0.0	cv	32	02	EB	cn	32	02	EB	CD	3E	00	B9	20
0080	12	43	0E	00	cv	3E	00	27	81	4F	23	1.0	F7	$^{\rm CD}$	3E	00
0090	ВĄ	28	07	EF	45	72	72	6F	72	00	cv	40	02	ΑF	BA	20
OCA0	B5	cp	51	00	31	33	00	C3	83	02	00	00	00	00	00	00